TASK: P758359



WK PKG: PR ET-093-TS-0011

ENG GRP: ETM

TSK LDR:

FLOC: VAB

MLOC: ET-93

STS/FLT: 107 /001

TITLE: SEVERAL AREAS OF DAMAGED FOAM ON THE INTERTANK AT THE

-Y/+Y LOCATIONS.

OPERATIONS LIST

NUMBER TaskBarCode	TITLE	OperationBarCode	DEPT/SHOP
10	SEVERAL AREAS OF DAMAGED FOAM ON THE		
	INTERTANKAT THE -Y/+Y LOCATIONS.		
20	SEVERAL AREAS OF DAMAGED FOAM ON THE		53700 SCH
100000000000000000000000000000000000000	INTERTANK AT THE -Y/+Y LOCATIONS.	TOTAL CALLERY OF	

	, p758359	USA 10/30
	1. Report Number Interim Problem Report Problem Report Problem Report Discrepancy Re	PAGE OF IO
	2. Detected During 3. Work Area/Location/Zone 4. End Item Control Number 6. Part/Program Name 6. Part/Program Number	1975 1975 1975
	5. Part/Program Name 6. Part/Program Number 7. Serial/Rev No. TUTER TANK FOAM CLose out 80904048410 - 500 N/A 8. NHA Part Number 9. STS/Eff, 10. Reported by	- Comp
	TO90 (1800 00 100 100 100 100 100 100 100 100	29-02 200M
	1.0 Several AREAS OF DAMAGED FORM ON THE INTERVANK AT THE -V/+V (OCATIONS THIS DROBABLY HAPPY	e ~/
	WHEN THE TANK WAS DEMATED FOR THE SED AND TRANSFERED TO HR-2.	5
	TPS/RSI Insti'd: Yes No C/P Insti'd: Yes No C/P Part Number: 14. Process Escape 15. Constraints 16. Crit 18. MR Regd 19. Out of Fam Yes No Yes No Yes	
	To: OMI-T6248, 89.46 / 1 3 ETM ITEMS: ITEMS:	
	Disposition Begins in Op. No-10. R Brewer & M-SE 10/29/52	1r Govt
75/432		
	25.804 (C	
57%	23. Data Code 4 4 24. Final Acceptance Date	
	7 0 9 M R - 1 8 D NOV 1 4 2002 10/31/02 25. RC Action Reqd 26. Related Reports	
8	Yes No	USA OBS
	KSC FORM 2-152 (REV. 9)C1)	



Constraint Revision Record

					1100014
United Space Alliance					125
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	SIGNATUR	D.5		VENDER	DATE
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Rationale for Change					<u> </u>
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	SIGNATUR	ies .		VERIFIED	DATE
New Constraint		<u> </u>		.·	Tair U
Rationale for Change					<u> </u>
	SIGNATUR	LES	-	VERIFIED	DATE
					-

FOAM DAMAGE ON INTERTANK FOAM INSTALLATION

Element/End Item: ET Flow/Usage: STS-107

Facility: VAB

Design Center Concurrence: NA

Category: OPR: ETM TTL ORG: SE

This document does not contain hazardous operations.



Approval Record

FOAM DAMAGE ON INTERTANK FOAM INSTALLATION

Technical Contact: R. Brewer	Phone: 1-4429
Category II TOP Only	
This Approval Record is for all Operation No(s) listed below:	
Initial Released	
Operations: 10	
Added Operations: 20	TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER
Deleted Operations:	
Replaced Operations:	
Change Index Added	
Comments:	
Check Family Type: In Family[x] Out of Family[] NM	A[]

Organization	Name (Printed)	Name (Signature)	Date
ETM-SE	R. Brewer	RBrewer	10-30-02
SE Check	Tom Ford	Tom Ford	10-30-02



Approval Record

FOAM DAMAGE ON INTERTANK FOAM INSTALLATION

_ Phone: 1-4429_

Technical Contact: R. Brewer

Organization	Name (Printed)	Name (Signature)	Date
Check Family Ty	pe: In Family[x] Ou	t of Family[] NMA[]	

Comments:			
Change Index Ad	ded 10-31-02		
Replaced Operati			
Deleted Operation			
Added Operation			
Operations:10	20		
Initial Released	WC 134 USA		
This Approval Re	ecord is for all Operation	No(s) listed below:	
	Categor	y II TOP Only	

Organization	Name (Printed)	Name (Signature)	Date
ETM-SE	R. Brewer	R Brewer	10-31-02
SE Check	M. Wollam Tom FORIS	70m ford	10-31-02



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UTOP Change Index

WAD:

United Space Allience		WAD: ET-093-TS-			
TE/TIME OF RELEASE	DATE 10/31/02	STAMP WC 134 USA	OP 20	REMARKS	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
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4.0 PLANNING REQUIREMENTS	2
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1.0 INFORMATION

1.3 Operations List

Operation		Shop/ Cntl Rm Console	OPR	Haz (Y/N)	Duration (Hrs)
No.	Title				
10	Map, measure and obtain photos	OPS/ NA	ETM	N	3.0
20	Sand / Blend Foam Damage and Summary / Closure	OPS/ NA	ETM	N	3.0

2.0 SAFETY INFORMATION

2.4 Reference Safety Documentation

Number	Rev	Title
KHB 1710.2	LI	KSC Safety Practices Handbook
GSOP 5400	LI	Ground Safety Operating Procedure

3.0 STAGING REQUIREMENTS

3.2 Parts, Materials, Equipment, and Special Tools

3.2.4 Non-Flight Materials

OPERATION 20

Part No./Find No.	Nomenclature	Qty	Unit
5350-00-K04-7563	320 grit abrasive paper	12	sheets

5.0 CONFIGURATION ACCOUNTING AND VERIFICATION

OPERATION 10 Map, measure and obtain photos

Shop: OPS

Cntrl Rm Console: NA

OPR: ETM Zone: NA

Hazard (Y/N): N Duration (Hrs): 3.0

INTERIM SUMMARY

During inspection per OMI T6248, areas of damage foam divots were found missing from several stringers and ribs on the +Y / -Y locations on the Intertank. This damage was apparently caused when this tank was demated in HB-1 and moved to HB-2 per OMI T 0033. At this time the demensions of these damaged areas is unknown. The following disposition will take photos and obtain measurements. Red dye may be needed if there are debonds and loose material at the the bottom. Based upon data obtained, these detects may meet drawing requirements. However, some will need to be sanded / blended to adjacent foam surfaces.

At the -Y Intertank location, Use attachment no. 1 as a reference to identify the location of foam damage on the rib / stringers. List findings below in the table as to location and item. Use a staedtler Lumocolor marker no. 317 to mark each foam defect as 1, 2, 3, 4, ect.. Use a six inch scale and a depth micrometer along with a pin gauge to measure each damaged area. The pin gauge shall be inserted through the center of each defect down to the substrate.

Table 10-1	Location	Length	Width	Depth	Pin gauge depth
1.	-Y R-12	4.250	.250	./87	-750
2.	-Y R-18	1.125	. 375	.187	• 500
3.	-Y R-20	1.000	.375	.187	- 500
4.	-4 R-21	1.500	. 375	-187	.625
5.				•	
6.					

T: 10-30-02



10/30/02 09:58:09 ÅM

At the +Y Intertank location, Use attachment no. 1 as a reference to identify the location of foam damage on the rib / stringers. List findings below in the table as to location and item. Use a staedtler Lumocolor marker no. 317 to mark each foam defect as 1, 2, 3, 4, ect. Use a six inch scale and a depth micrometer along with a pin gauge to measure each damaged area. The pin gauge shall be inserted through the center of each defect down to the substrate.

Table 10-2	Location	Length	Width	Depth	Pin gauge depth
1.	+YR6	1.750	-250	-250	-625
2.	+V R8	1.000	,250	125	.500
	HIRIZ	1.500	. 250	.125	.500
	NR14	. 250	. 250	-125	-625
5.	ty RIS	-625	.315	.250	-500
6.	TY RZO	1,000	.500	- 250	-625
		1			

10-3 Obtain still photos of the foam defects that have been identified in the two tables above.

Work Order No. 54514 .

Notify ET Engineering to review the results listed in the tables.

Further Dispo to follow:

*** End of Operation 10 ***



OPERATION 20 Sand / Blend Foam Damage and Summary / Closure

Shop: OPS

Cntrl Rm Console: NA

OPR: ETM Zone: NA

Hazard (Y/N): N Duration (Hrs): 3.0

WARNING

Trimming/abrading TPS is hazardous. Personnel shall be attired in chemical splash goggles, long sleeve disposable coveralls and solvent resistant gloves

CSR-569

Use (12) sheets 5350-00-K04-7563 320 grit abrasive paper to sand / blend the foam damage areas to adjacent surfaces as identified in Tables 10-1 and 10-2. Use care as to not increase the depth of the area. Use a vacuum cleaner or wipe with clean dry rymple cloth to remove any foam dust.

SUMMARY / CLOSURE

During pre move inspection per OMI T 6248, several areas (10) of damage foam were found on the Intertank SOFI at the +Y /-Y / locations. Measurements were taken on these areas along with using a pin gauge to measure the remaining foam thickness below each damaged area. These measurements showed that there is a minimum of 0.500 inch of foam under each defect. Per drawing 80971118413, sht.131, there should be a minimum foam thickness of 0.300 inch at these locations. The rough edges on these defects were blended to adjacent foam surfaces. No further action is required for this PR.

RC action is not needed.

Cause: Workmanship / inadvertently caused while performing OMI T0033.

zu-z Close this PR.

*** End of Operation 20 ***

QW:<u>(1)</u> 10/31/02





